



15. With emergency spillway, required spillway capacity $Q_p = Q_2 = 65.15$ cfs.
(Riser and barrel.)

Without emergency spillway, required spillway capacity $Q_p = Q_{25} = 101.27$ cfs.
(Riser and barrel.)

16. With emergency spillway:

Assumed available head (h) = 1.0 ft. (Using Q_2)

h = Crest of Emergency Spillway Elevation - Crest of Riser Elevation

Without emergency spillway:

Assumed available head (h) = 2.0 ft. (Using Q_{25})

h = Design High Water Elevation - Crest of Riser Elevation

25. Top of Dam = 332.20
Design High Water = 330.80
Emergency Spillway Crest = 330.80
Principal Spillway Crest = 329.80
Dewatering Orifice Invert = 326.25
Cleanout Elevation = 324.50
Elevation of Upstream Toe of Dam or
Excavated Bottom of "Wet Storage Area"
(if excavation was performed) = 320.00

S/N: 35YXYWHCJ50		Solid Waste Services
Bentley PondPack (10.00.023.00)	2:21 PM	12/27/2007

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SEDIMENT BASIN (SB-4)— DETAILS AND COMPUTATIONS

**WOODS ROAD DISPOSAL UNIT
PRIMARY INFRASTRUCTURE**

LOUDOUN COUNTY, VIRGINIA

PLAN STATUS					
DATE		DESCRIPTION			
GA DESIGN		GA DRAWN		FA CHK	
SCALE		H: N/A V:			
DATE 01/22/08					
<div style="float: left; font-size: 2em;">35</div> <div style="float: right; font-size: 2em;">OF 4</div>					
SHEET					